

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

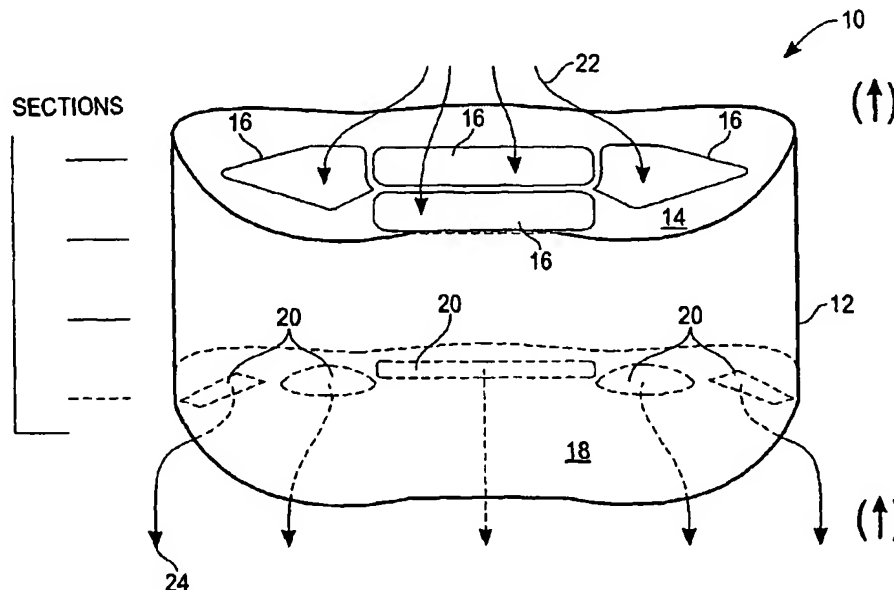
PCT

(10) International Publication Number
WO 2004/015549 A2

- (51) International Patent Classification⁷: **G06F**
- (21) International Application Number: PCT/US2003/025421
- (22) International Filing Date: 12 August 2003 (12.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/402,994 12 August 2002 (12.08.2002) US
60/435,626 19 December 2002 (19.12.2002) US
10/402,729 28 March 2003 (28.03.2003) US
- (71) Applicant and
(72) Inventor: **BONNAT, Pierre** [FR/US]; 2250 East Tropicana Avenue, Suite 19-327, Las Vegas, NV 89119 (US).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **HOWARD, Adam, M.** [US/US]; 9213 Sailing Water Avenue, Las Vegas, NV 89147 (US).
- (74) Agent: **MARAIS, Andre, L.**; Blakely, Sokoloff, Taylor & Zafman, LLP, 12400 Wilshire Boulevard, Seventh Floor, Los Angeles, CA 90025 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: AN INPUT DEVICE FOR A COMPUTER SYSTEM THAT UTILIZES AMBIENT LIGHT, AND A METHOD OF MANUFACTURING THE SAME



(57) Abstract: An input device, to provide input to a computer system, includes a body defining multiple fluid channels. A movable element is located within each of the fluid channels so as to be movable and responsive to a fluid flow through the respective fluid channel. A light sensor is furthermore associated with each movable element, such that movement of the movable element varies an intensity of light to which the respective light sensor is exposed. The input device generates an input signal in accordance with the intensity of the light to which at least one light sensor of the input device is exposed.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.